

***Remarks***

Reconsideration of this Application is respectfully requested.

~~Upon entry of the foregoing amendment, claims 1-10, 26-41, and 43-45 are~~  
pending in the application, with claims 1 and 26 being the independent claims. Claim 42 is sought to be cancelled without prejudice to or disclaimer of the subject matter therein. Claims 1, 4, 5, 7, 26, 44, and 45 are sought to be amended. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and following remarks, Applicant respectfully requests that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

***Rejections under 35 U.S.C. § 103***

Caputo and SSL3spec

In the Office Action, claims 1, 2, 8-10, 26, 31, and 42 were rejected under 35 U.S.C. §103(a) as being unpatentable over Caputo, U.S. Patent 5,778,071 (Caputo) in view of Freier, et al, "The SSL Protocol Version 3.0" (SSL3spec). Applicant respectfully traverses this rejection.

The combination of Caputo and SSL3spec does not teach or suggest each and every element of independent claims 1 and 26. Caputo describes a device 10 having a cryptographic module 180. (Caputo, FIG. 2). The cryptographic module 180 includes a communications controller 162, a microprocessor 164, system memory 166, an input/output module 168, a crypto engine 170, and a communications controller 172. (Caputo, col. 8, lines 56-63). The components of the cryptographic module 180 are operatively coupled via a microprocessor bus 184. (Caputo, col. 8, lines 63-64).

As described in Caputo, an Inbound Task receives data through the modem or network interface 160, decrypts the data received in the crypto engine 170, and verifies ~~the data if the MAC option is enabled in the crypto engine 170.~~ (Caputo, FIG. 2, col. 17, lines 60-65). The processed data is then sent to the computer (e.g., via a PCMCIA connection). In an Outbound Task, data is received from the computer (e.g., via a PCMCIA connection) and subjected to authentication processing, if enabled, and encryption processing. (Caputo, col. 18, lines 1-6). The processed data is then sent to the modem or network interface for transmission. (Caputo, col. 18, lines 3-4). Thus, Caputo does not teach or suggest that a packet is received from and passed to the same off-chip processor. Furthermore, Caputo does not teach or suggest that authentication and encryption is performed in the crypto engine 170 in a single pass.

Therefore, Caputo does not teach or suggest "receiving, in a chip, a packet including non-pre-padded network security protocol data for both authentication and cryptography operations from an off-chip processor over a peripheral communications bus," and "passing said crypto-processed packet from said chip to said off-chip processor ... wherein said authentication and encryption for the packet is performed within said chip in a single pass," as recited in amended independent claim 1 or "receiving, in a chip, a packet including non-pre-padded network security protocol data for both authentication and cryptography operations from an off-chip processor over a peripheral communications bus," and " passing the processed network security protocol data in a packet from the chip to said off-chip processor ... wherein said authentication and encryption for the packet is performed within said chip in a single pass," as recited in amended independent claim 26.

The SSL3spec does not overcome the deficiencies of Caputo described above. For at least these reasons, amended independent claims 1 and 26 are patentable over the combination of Caputo and SSL3spec. ~~Claims 2 and 8-10 depend from claim 1 and~~ claim 31 depends from claim 26. For at least the above reasons and further in view of their own features, claims 2, 8-10, and 31 are patentable over the combination of Caputo and SSL3spec. Dependent claim 42 was cancelled by the above amendment. Reconsideration and withdrawal of the rejection is therefore respectfully requested.

Caputo and TLSspec

In the Office Action, claim 3 was rejected under 35 U.S.C. §103(a) as being unpatentable over Caputo in view of Dierks, et al, "The TLS Protocol Version 1.0" (TLSspec). Applicant respectfully traverses this rejection.

Claim 3 depends from claim 1. The TLSspec does not overcome the deficiencies of Caputo described above relative to claim 1. For at least these reasons, and further in view of its own feature, claim 3 is patentable over the combination of Caputo and TLSspec. Reconsideration and withdrawal of the rejection is therefore respectfully requested.

Caputo, SSL3spec, and Kaplan

In the Office Action, claims 4-7, 29, 30, 33, 35-41, and 43-45 were rejected under 35 U.S.C. §103(a) as being unpatentable over Caputo in view of SSL3spec further in view of Kaplan, U.S. Patent 6,704,871 (Kaplan). Applicant respectfully traverses this rejection.

Claims 4-7, 41, and 43-45 depend from claim 1 and claims 29, 30, 33, and 35-40 depend from claim 26. Kaplan does not overcome all the deficiencies of the combination of Caputo and the SSL3spec relative to independent claims 1 and 26 described above. For at least these reasons and further in view of their own features, claims 4-7, 29, 30, 33, 35-41, and 43-45 are patentable over the combination of Caputo, SSL3spec, and Kaplan. Reconsideration and withdrawal of the rejection is therefore respectfully requested.

Caputo, SSL3spec, Gaytan

In the Office Action, claims 27 and 28 were rejected under 35 U.S.C. §103(a) as being unpatentable over Caputo in view of SSL3spec, further in view of Gaytan, U.S. Patent 5,638,367 (Gaytan). Applicant respectfully traverses this rejection.

Claims 27 and 28 depend from claim 26. Gaytan does not overcome all the deficiencies of the combination of Caputo and the SSL3spec relative to independent claim 26 described above. For at least these reasons and further in view of their own features, claims 27 and 28 are patentable over the combination of Caputo, SSL3spec, and Gaytan. Reconsideration and withdrawal of the rejection is therefore respectfully requested.

Caputo, SSL3spec, Ganapathy

In the Office Action, claim 32 was rejected under 35 U.S.C. §103(a) as being unpatentable over Caputo in view of SSL3spec, further in view of Ganapathy, U.S. Patent 6,557,096 (Ganapathy). Applicant respectfully traverses this rejection.

Claim 32 depends from claim 26. Ganapathy does not overcome all the deficiencies of the combination of Caputo and the SSL3spec relative to independent ~~claim 26 described above. For at least these reasons and further in view of their own~~ features, claim 32 is patentable over the combination of Caputo, SSL3spec, and Ganapathy. Reconsideration and withdrawal of the rejection is therefore respectfully requested.

Caputo, SSL3spec, Kaplan, Gaytan

In the Office Action, claim 34 was rejected under 35 U.S.C. §103(a) as being unpatentable over Caputo in view of SSL3spec and Kaplan, further in view of Gaytan. Applicant respectfully traverses this rejection.

Claim 34 depends from claim 26. The combination of Kaplan and Gaytan does not overcome all the deficiencies of the combination of Caputo and the SSL3spec relative to independent claim 26 described above. For at least these reasons and further in view of their own features, claim 34 is patentable over the combination of Caputo, SSL3spec, Kaplan, and Gaytan. Reconsideration and withdrawal of the rejection is therefore respectfully requested.

***Conclusion***

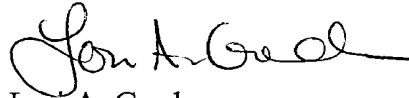
All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the

outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will ~~expedite prosecution of this application, the Examiner is invited to telephone the~~ undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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